



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

Glasswall, LLC  
3550 N.W. 49 Street  
Miami, FL 33142

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: Series "105L" Outswing Aluminum Casement Window – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. W14-25, titled "Series-105L Alum. Outswing Casement Window (L.M.I.)", sheets 01 through 08 of 08, dated 06/25/14, with the latest revision dated 03/19/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises and renews NOA No. 12-0821.20 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Jaime D. Gascon, P. E.



*J. Gascon*  
3/26/15

NOA No. 14-0415.04  
Expiration Date: April 08, 2019  
Approval Date: April 02, 2015  
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under previous NOA's No.'s 12-0821.20 and 04-0126.02)*
2. Drawing No. W14-25, titled "Series-105L Alum. Outswing Casement Window (L.M.I.)", sheets 01 through 08 of 08, dated 06/25/14, with the latest revision dated 03/19/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of a series 105L outswing aluminum casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-6985, dated 07/22/12, signed and sealed by Marlin D. Brinson, P. E.  
*(Submitted under previous NOA No.12-0821.20)*
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of an aluminum projected/casement window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s FTL-3957 and FTL-3958, both dated 11/10/03, signed and sealed by Edmundo J. Largaespada, P. E.  
*(Submitted under NOA No.04-0126.02)*

**C. CALCULATIONS**


1. Anchor verification calculations and structural analysis, complying with FBC 5<sup>th</sup> Edition (2014), dated 03/19/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.
2. Glazing complies with ASTM E1300-04/ 09

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. 14-0916.11 issued to Kuraray America, Inc. for their "Kuraray SentryGlas® Interlayer" expiring on 01/14/17.

  
Jaime D. Gascon, P.E.  
Product Control Section Supervisor  
NOA No. 14-0415.04  
Expiration Date: April 08, 2019  
Approval Date: April 02, 2015

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**F. STATEMENTS**

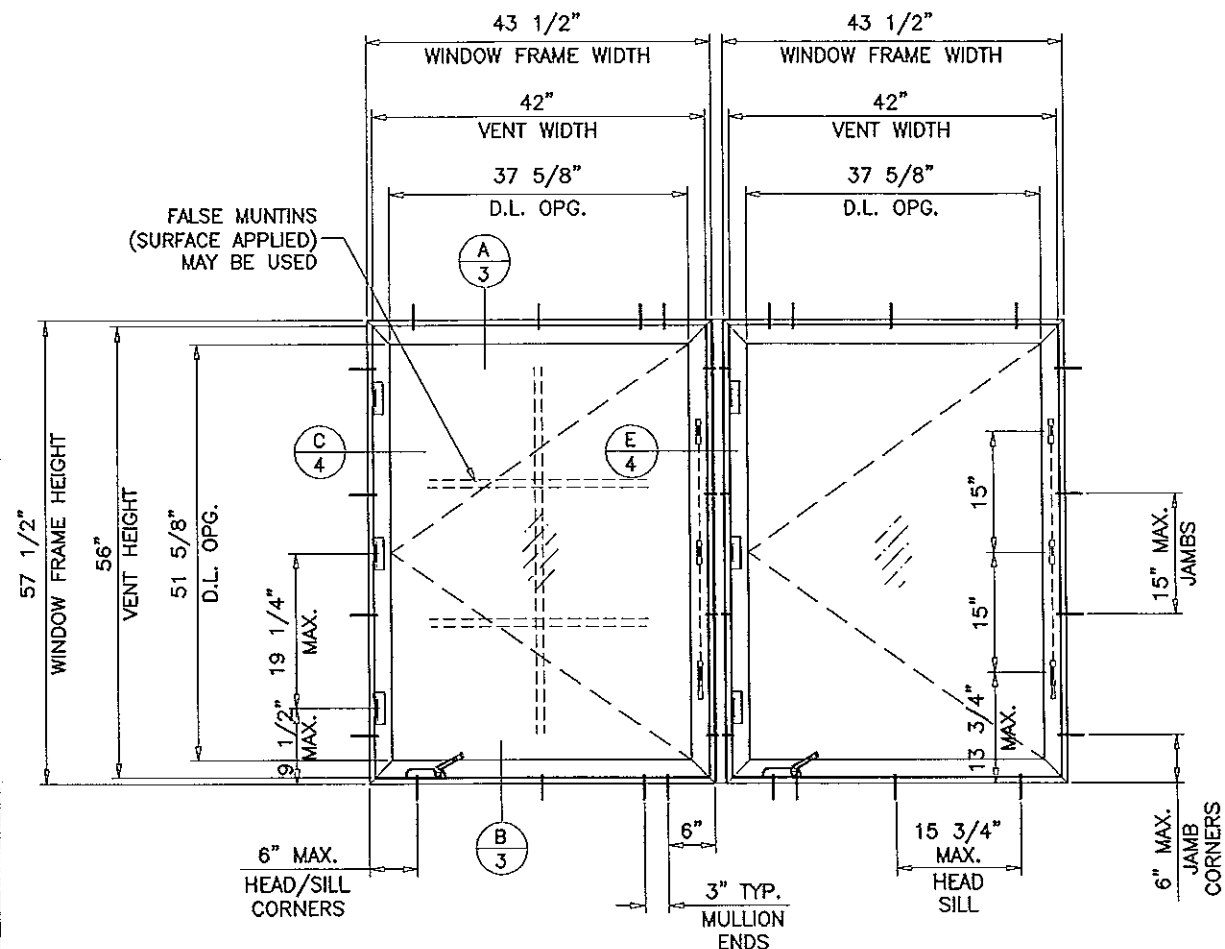
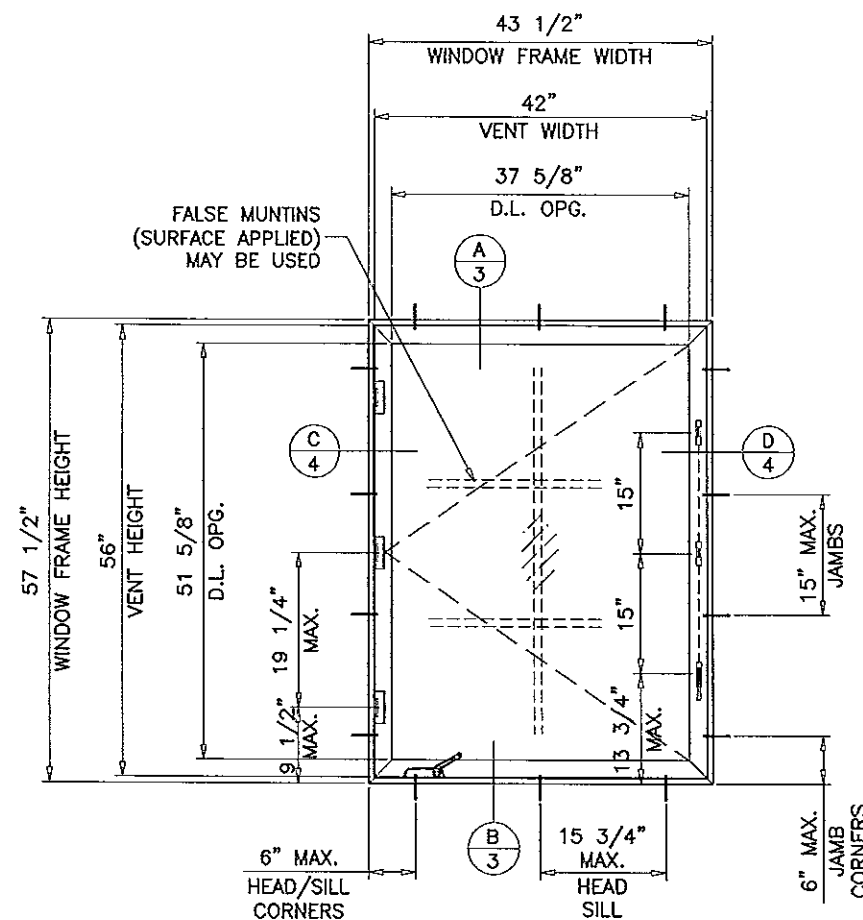
1. Statement letter of conformance to and of complying with **FBC 5<sup>th</sup> Edition (2014)**, dated 03/19/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.
2. Statement letter of conformance to and of complying with **FBC-2010**, dated 03/21/14, prepared, signed and sealed by Kelvyn Whitfield, P. E.  
*(Submitted under previous NOA No.12-0821.20)*
3. Statement letter of no financial interest, dated 01/18/13, prepared, signed and sealed by Kelvyn Whitfield, P. E.  
*(Submitted under previous NOA No.12-0821.20)*
4. Laboratory compliance letter for Test Report No. **FTL-6985**, issued by Fenestration Testing Laboratory, Inc., dated 07/22/12, signed and sealed by Marlin D. Brinson, P. E.  
*(Submitted under previous NOA No. 12-0821.20)*
5. Testing program email by Product Control, dated 06/26/12, issued by Manuel Perez, P. E.  
*(Submitted under previous NOA No.12-0821.20)*
4. Laboratory compliance letter for Test Reports No.'s **FTL-3957** and **FTL-3958**, issued by Fenestration Testing Laboratory, Inc., both dated 11/10/03, signed and sealed by Edmundo J. Largaespada, P. E.  
*(Submitted under previous NOA No. 04-0126.02)*

**G. OTHERS**

1. Notice of Acceptance No. **12-0821.20**, issued to Glasswall, LLC for their Series "105L Outswing Aluminum Casement Window - L.M.I.", approved on 02/07/13 and expiring on 04/08/14.



Jaime D. Gascon, P.E.  
Product Control Section Supervisor  
NOA No. 14-0415.04  
Expiration Date: April 08, 2019  
Approval Date: April 02, 2015



TYPICAL ELEVATIONS

MAXIMUM DESIGN LOAD RATING = + 100.0 PSF  
(FOR SIZES SHOWN ABOVE OR SMALLER) - 100.0 PSF

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.  
SHUTTERS ARE NOT REQUIRED.

## SERIES-105L

### ALUMINUM OUTSWING CASEMENT WINDOW

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF CASMT./CASMT. OR CASEMENT WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING CUSTOM MULLION SHOWN HEREIN OR MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN.  
LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

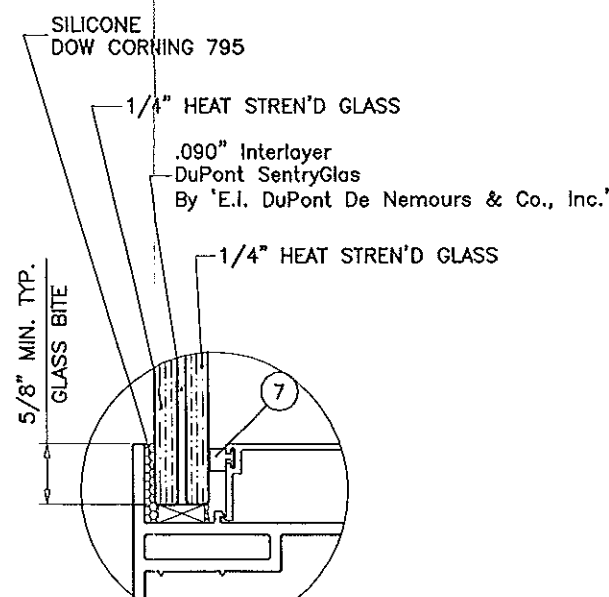
THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.



GLAZING DETAIL

### HARDWARE PACKAGE 'A'

ALUMINUM BUTT HINGE TYPE  
SINGLE LOCK HANDLE AND KEEPER SYSTEM WITH CONNECTING BAR  
FACE MOUNT SINGLE ARM OPERATOR  
SEE SHEETS 3 & 4 FOR DETAILS.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0415.04  
Expiration Date 04/08/2019  
By [Signature]  
Miami Dade Product Control

Engr: JAVAD AHMAD  
CML  
FLA. PE # 70592  
C.A.N. 3538

MAR 19 2015

afc

AL-FAROOQ CORPORATION  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W14-25GWL

SERIES-105L ALUM OUTSWING CASEMENT WDW. (L.M.L.)

GLASSWALL, LLC  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

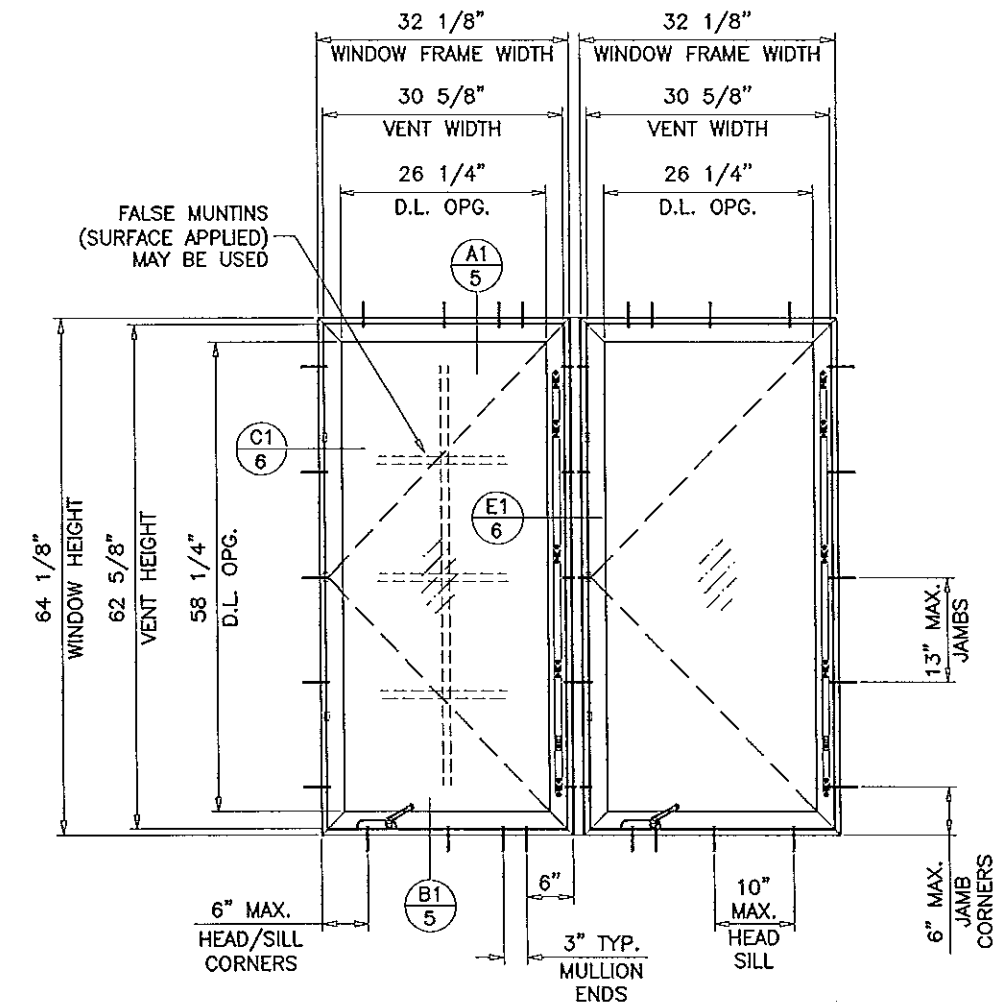
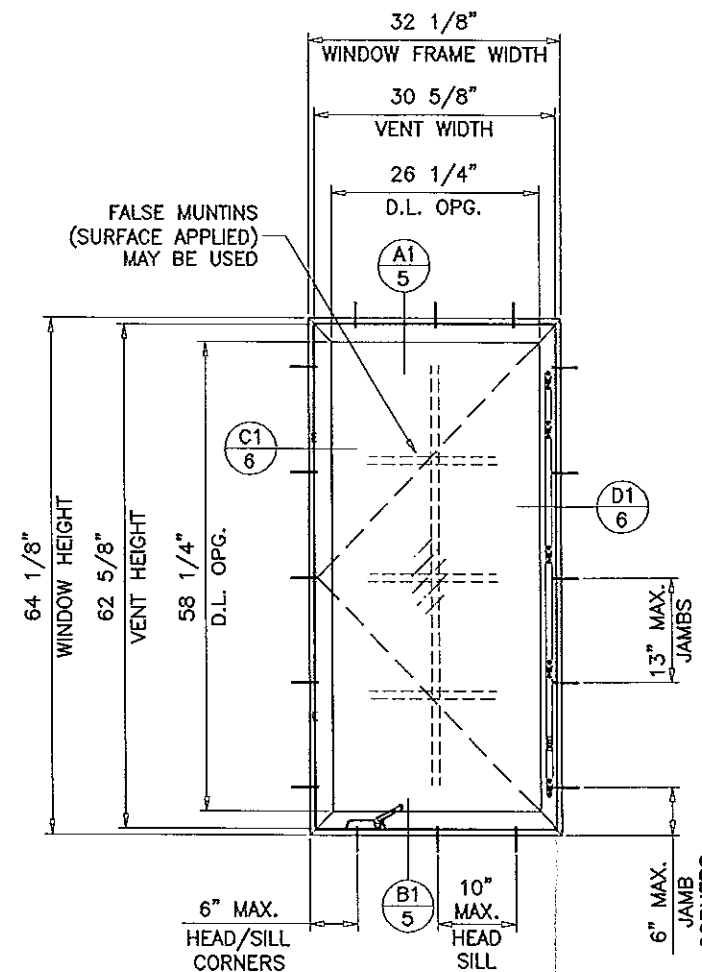
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chk. by:	

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W14-25

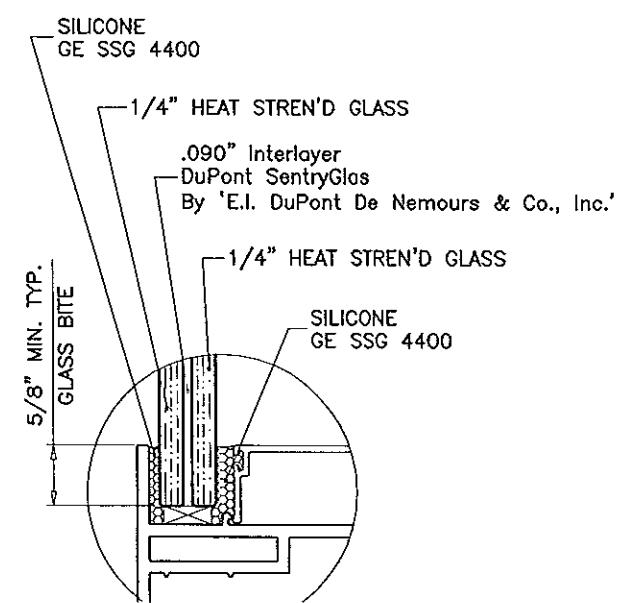
sheet 1 of 8



TYPICAL ELEVATIONS

**HARDWARE PACKAGE 'B'**  
 STAINLESS STEEL FOUR-BAR HINGE TYPE  
 MULTIPOINT LOCK BAR SYSTEM WITH LEVER TYPE ACTIVATING HANDLE  
 FACE MOUNT SINGLE ARM OPERATOR  
 SEE SHEETS 5 & 6 FOR DETAILS

MAXIMUM DESIGN LOAD RATING = + 100.0 PSF  
 (FOR SIZES SHOWN ABOVE OR SMALLER) - 125.0 PSF



GLAZING DETAIL

PRODUCT REVISED  
 as complying with the Florida  
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 Expiration Date 04/08/2019  
 By *[Signature]*  
 Miami Dade Product Control

Engr: JAVAD AHMAD  
 CML  
 FLA. PE # 70592  
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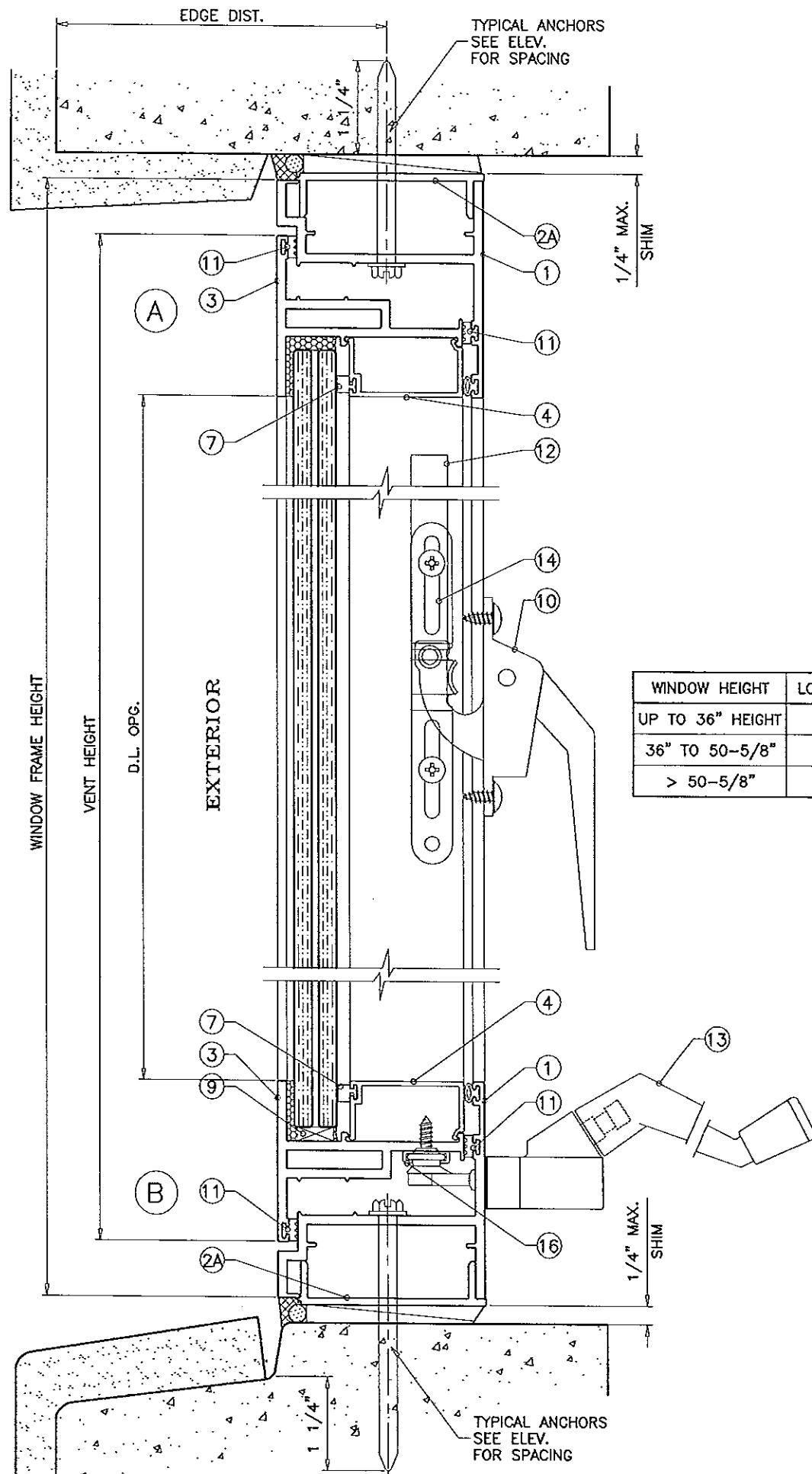
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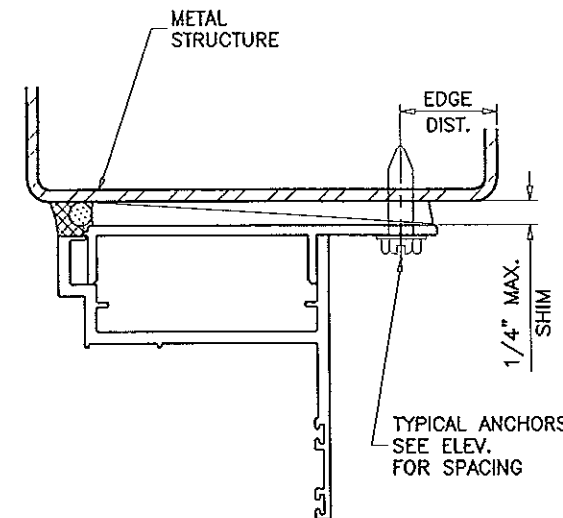
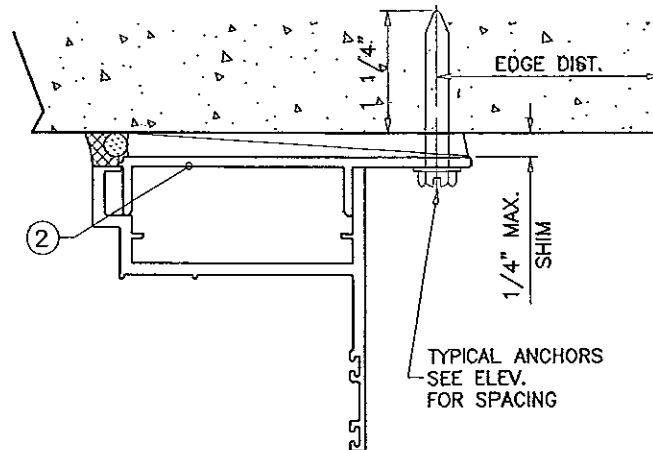
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 chk. by:

drawing no.  
**W14-25**  
 sheet 2 of 8



WINDOW HEIGHT	LOCKING POINTS
UP TO 36" HEIGHT	1
36" TO 50-5/8"	2
> 50-5/8"	3



METAL STRUCTURE NOT BY GLASSWALL  
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM  
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

DIRECTLY INTO CONC. OR MASONRY

1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)

1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

**#14 ST/ST SMS**

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = .10")

INTO METAL STRUCTURES

STEEL : .10" THK. MIN. (Fy = 36 KSI MIN.)

ALUMINUM : .10" THK. MIN. (6063-T5 MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**TYPICAL EDGE DISTANCE**

INTO CONCRETE AND MASONRY = 2-1/2" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.

C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

**HARDWARE PACKAGE 'A'**

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. **14-0415.04**  
Expiration Date **04/08/2019**  
By *[Signature]*  
Miami Dade Product Control

Engr: JAVAD AHMAD  
CML  
FLA. PE # 70592  
C.A.N. 3538

MAR 19 2015

**AL-FAROOQ CORPORATION**  
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1235 S.W. 87 AVE  
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TEL. (305) 264-8400 FAX. (305) 262-6978  
COMP-ANL W14-25GWL

SERIES-105L ALUM OUTSWING CASEMENT WDW. (L.M.I.)  
**GLASSWALL, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

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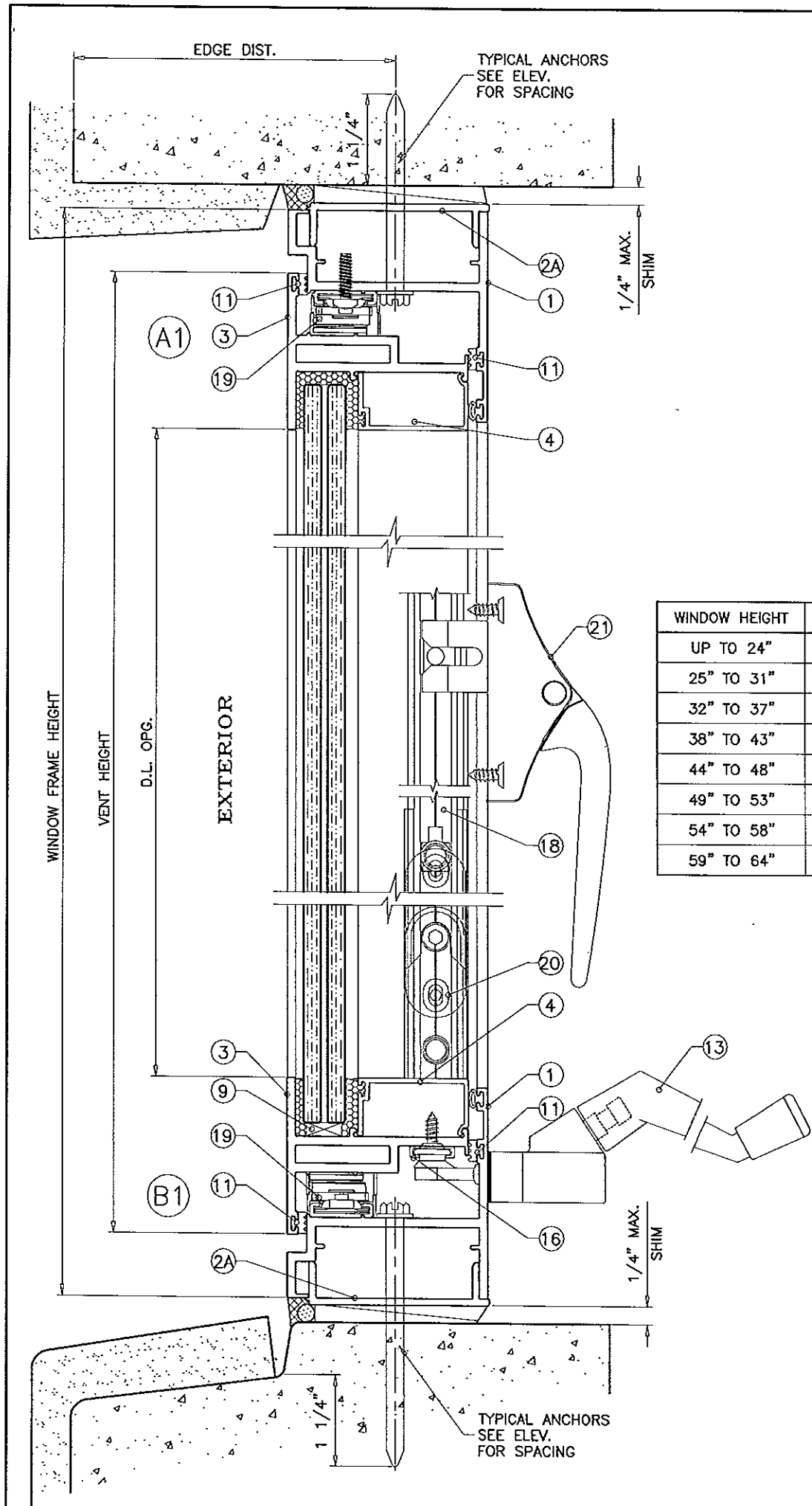
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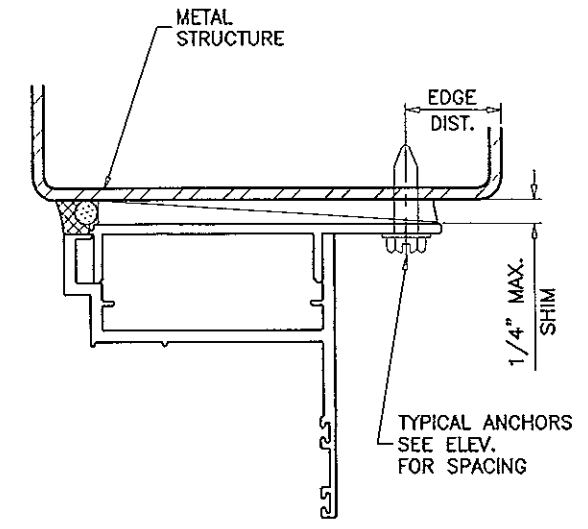
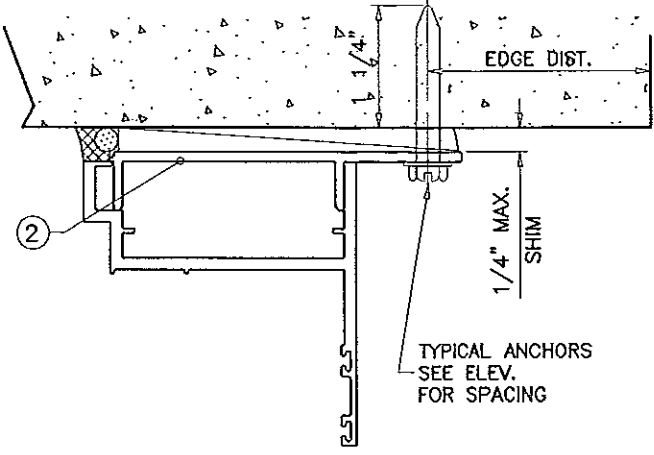
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sheet 3 of 8





WINDOW HEIGHT	LOCKING POINTS
UP TO 24"	2
25" TO 31"	2
32" TO 37"	3
38" TO 43"	3
44" TO 48"	4
49" TO 53"	4
54" TO 58"	4
59" TO 64"	5

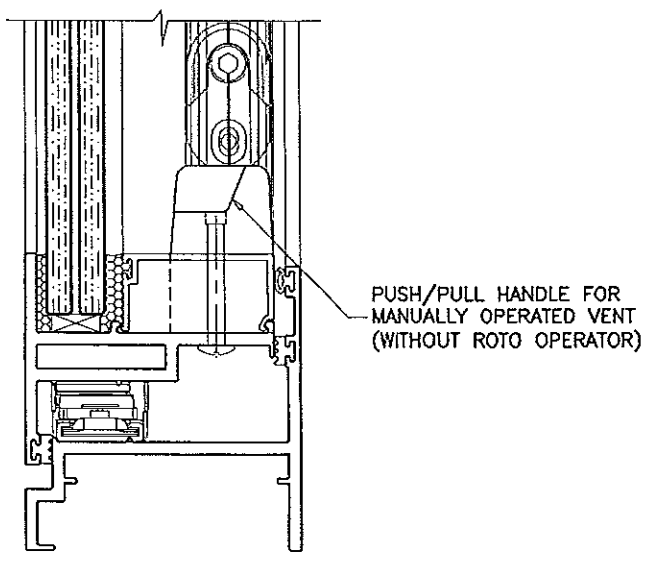


METAL STRUCTURE NOT BY GLASSWALL  
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM  
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING  
**1/4" DIA. ULTRACON BY 'ELCO'** (Fu=177 KSI, Fy=155 KSI)  
 DIRECTLY INTO CONC. OR MASONRY  
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)  
**#14 ST/ST SMS**  
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = .10")  
 INTO METAL STRUCTURES  
 STEEL : .10" THK. MIN. (Fy = 36 KSI MIN.)  
 ALUMINUM : .10" THK. MIN. (6063-T5 MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**TYPICAL EDGE DISTANCE**  
 INTO CONCRETE AND MASONRY = 2-1/2" MIN.  
 INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.  
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



**MANUALLY OPERATED VENT**  
(OPTIONAL)

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 Miami Dade Product Control

**HARDWARE PACKAGE 'B'**

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 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
 MAR 19 2015

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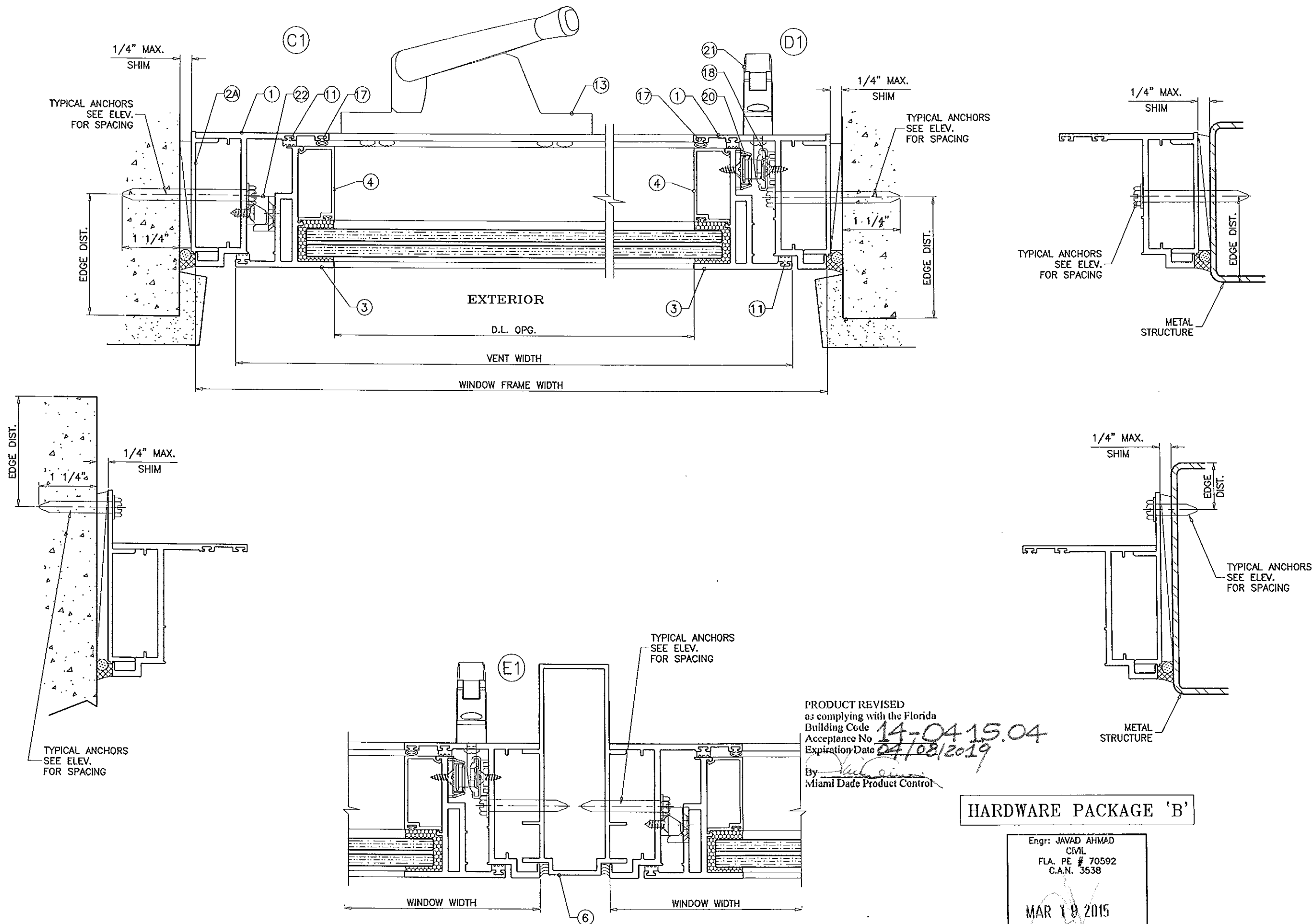
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drawing no.  
**W14-25**

sheet 5 of 8





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HARDWARE PACKAGE 'B'

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 FLA. PE # 70592  
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 MAR 18 2015

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no	by description

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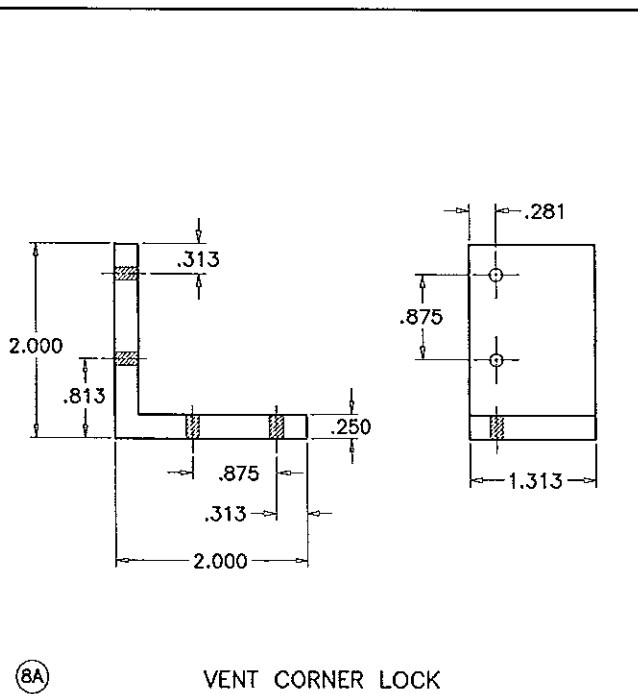
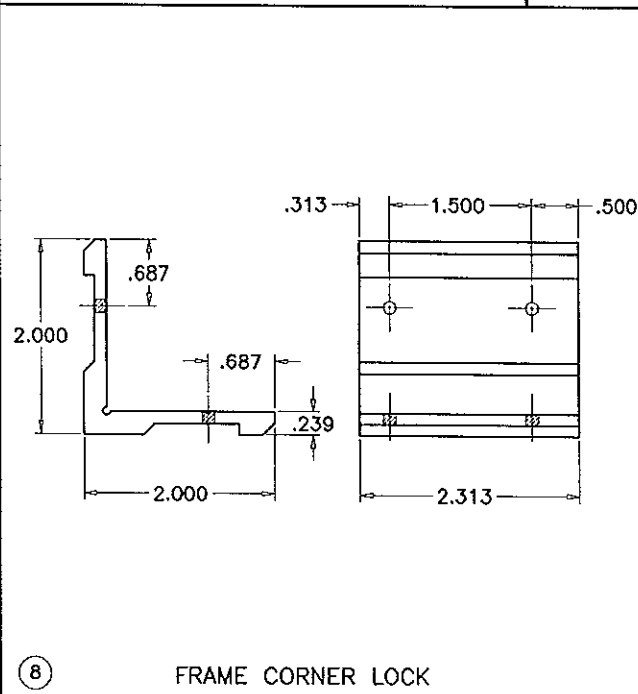
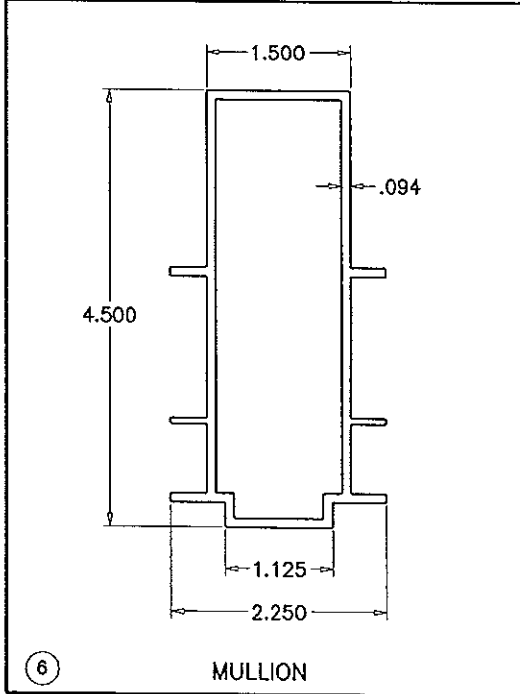
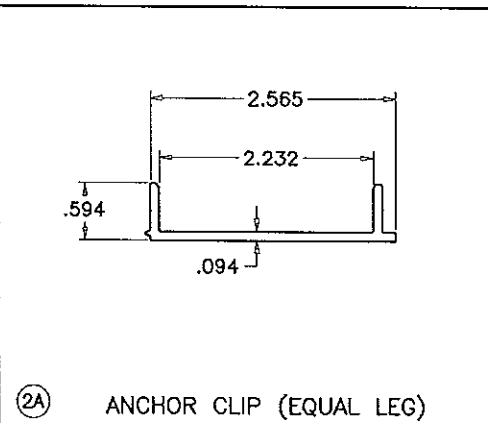
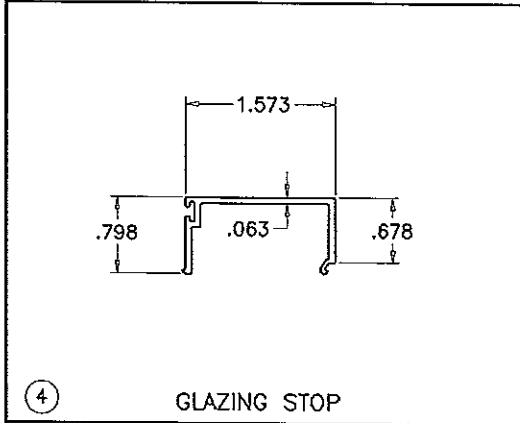
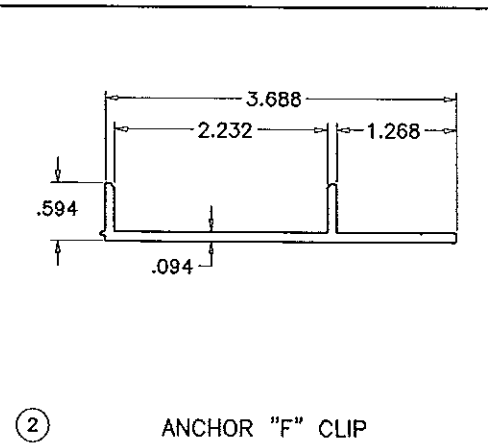
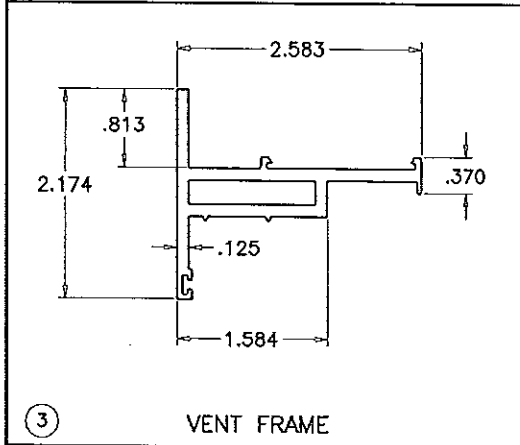
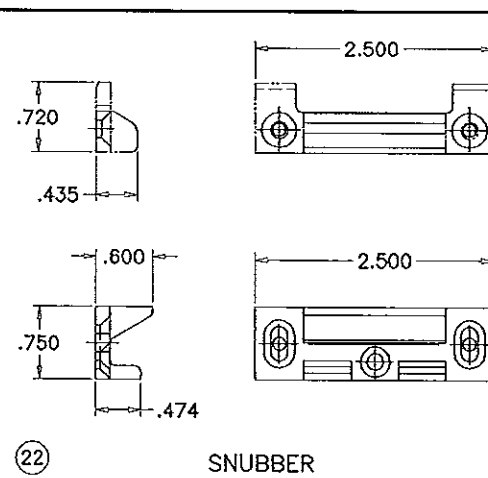
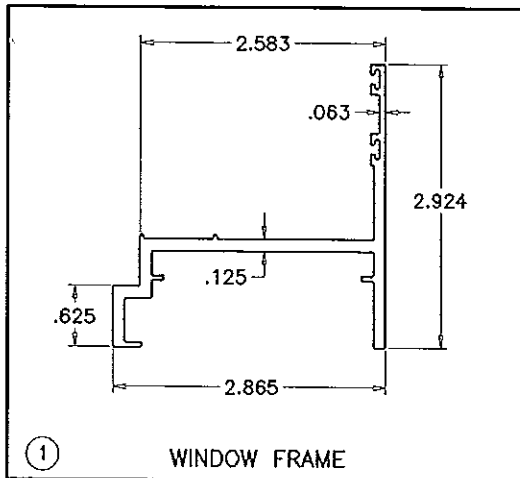
dr. by: HAMID

chk. by:

drawing no.

W14-25

sheet 6 of 8



ITEM	PART No.	QUANTITY	DESCRIPTION	MATERIAL	REMARKS/MANUFACTURER
1	105-002	AS REQ'D	WINDOW FRAME	ALUM. 6063-T6	-
2	102-009	AS REQ'D.	"F" ANCHOR CLIP	ALUM. 6063-T6	-
2A	102-011	AS REQ'D.	ANCHOR CLIP (FOR DIRECT MOUNT)	ALUM. 6063-T6	-
3	105-001	AS REQ'D	VENT FRAME	ALUM. 6063-T6	-
4	105-003	AS REQ'D.	GLAZING STOP	ALUM. 6063-T6	-
5	AH-GW	3/VENT	BUTT HINGE ASSY., FASTENED W/(5) #10 SMS.	ALUM. 6063-T6	WINDOW HARDWARE
6	102-010	-	MULLION	ALUM. 6063-T6	-
7	679-FP-688B	AS REQ'D.	GASKET	EPDM	DUROMETER 70±5, SHORE A
8	105-004	1/CORNER	FRAME CORNER LOCK ANGLE	ALUM. 6063-T6	-
8A	-	1/CORNER	VENT CORNER LOCK ANGLE	ALUM. 6063-T6	-
9	-	2/ LITE	SETTING BLOCK (3/16 x 3/4 x 4" LG.)	EPDM	DUROMETER 80±5, SHORE A
10	24.13	1/VENT	SURFACE MOUNT LOCKING MECHANISM W/CONNECTING BAR	METALLIC	-
11	679-FP-786B	AS REQ'D.	GASKET	EPDM	DUROMETER 70±5, SHORE A
12	-	AS REQ'D	LOCKING SYSTEM CONNECTING BAR	METALLIC	-
13	23.10	1/VENT	ROTO OPERATOR, FASTENED W/(4) #10x1/2" PH.SMS. (OPTIONAL)	CAST	TRUTH
14	31376	AS REQ'D	SURFACE MOUNT KEEPER, FASTENED W/(2) #10 SS.SMS.	STAINLESS STEEL	TRUTH
15	-	8/CORNER	#10x1/2" PH.SMS.	STAINLESS STEEL	-
16	30175	1/VENT	OPERATOR'S ARM TRACK (OPTIONAL)	STAINLESS STEEL	TRUTH
17	679-FP-448VB	AS REQ'D	BULB VINYL WEATHERSTRIP	VINYL	-
18	105-GW-HW	1	SURFACE MOUNT MULTI POINT LOCK SYSTEM W/ACTIVATING LEVEL TYPE HANDLE, AT 11-1/2" FROM BOTTOM.	METALLIC	W/(2)#10x1/2" FH.UC.SMS. AT EA. LOCKING POINT
19	105 GW-HW-016	2/VENT	FOUR-BAR HINGE, ONE EACH AT HEAD AND SILL	STAINLESS STEEL	-
20	105 GW-HW-010	AS REQ'D	SURFACE MOUNT KEEPERS, W/(3) #10x5/8" F.H.SMS.	METALLIC	-
21	105 GW-HW-007	1	LOCKING HANDLE, FASTENED W/(2) 10-24x3/4" FH.UC.MS	METALLIC	-
22	105 GW-HW-009	3	SNUBBER ANGLES, AT HINGE SIDE FRAME JAMB AND VENT SIDE RAIL, AT 14-3/4" FROM ENDS AND AT MIDSPAN	METALLIC	W/(2)#10x5/8"FH.UC.SMS.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0415.04  
Expiration Date 04/08/2019  
By *[Signature]*  
Miami Dade Product Control

#### SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SILICONE SEALANT.  
SET ALL CORNER LOCK ANGLES AT FRAME AND VENT IN BED OF SILICONE SEALANT.

Engr: JAVAD AHMAD  
CML  
FLA. PE. # 70592  
C.A.N. 3538  
MAR 19 2015

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W14-25GWL

SERIES-105L ALUM OUTSWING CASEMENT WDW. (L.M.I.)

**GLASSWALL, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

Revisions:		date		by description	
no	date	no	date	no	date

date: 06-25-14

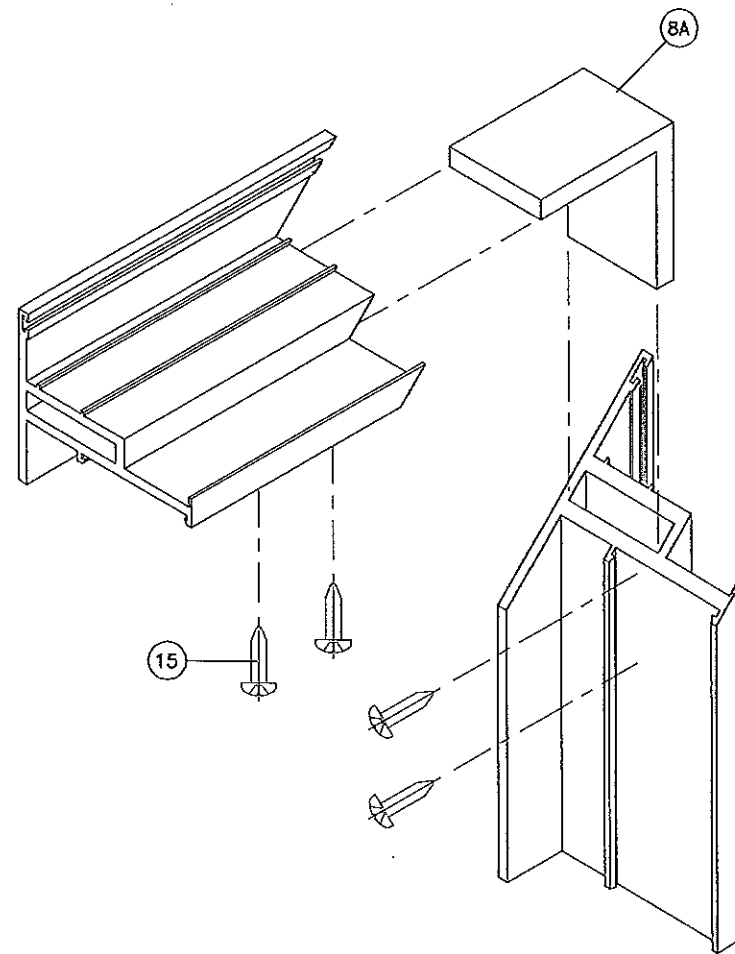
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dr. by: HAMID

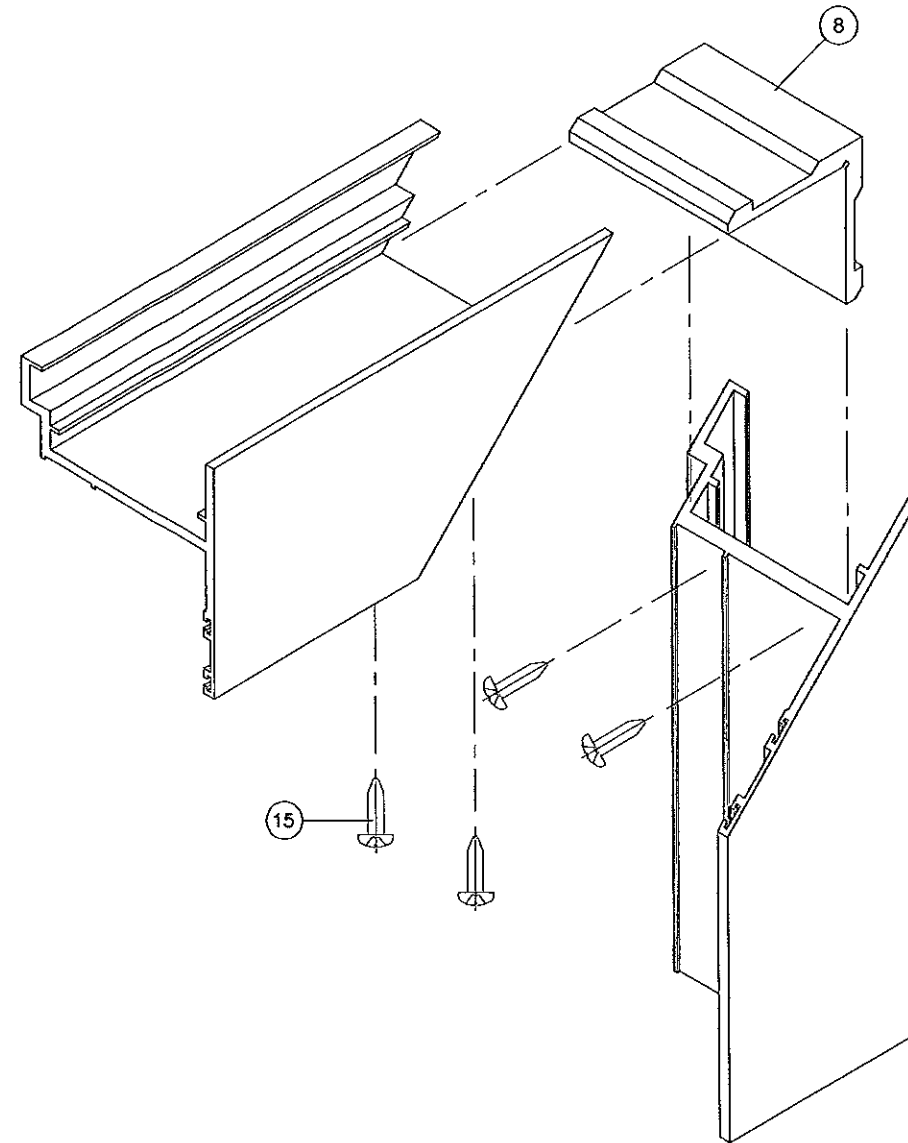
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drawing no.  
**W14-25**

sheet 7 of 8



VENT CORNERS



FRAME CORNERS

PRODUCT REVISED  
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Building Code  
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**af c**

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revisions:		
no	date	by description

date: 06-25-14	scale: 1/2" = 1"	dr. by: HAMID	chk. by:
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drawing no.  
**W14-25**

sheet 8 of 8